

WHAT IS CLAIMED:

1. A circuit interrupting device comprising:
 - a housing;
 - a pair of line terminals disposed at least partially within said housing and
 - 5 capable of being electrically connected to a source of electricity;
 - a pair of load terminals disposed at least partially within said housing and
 - capable of conducting electrical current to a load when electrically connected to said line
 - terminals;
 - a pair of electrical conductors for electrically connecting the line terminals
 - 10 to the load terminals;
 - a circuit interrupting portion disposed within said housing, said circuit
 - interrupting portion comprising a coil and movable plunger assembly, a biased
 - mechanical switch assembly and a latch and lifter assembly where said latch having a
 - circular opening is springingly and slidably coupled to said lifter which also has a circular
 - 15 opening, the movable plunger being positioned to engage the latch and the lifter being
 - positioned to engage the mechanical switch for engaging a sensing circuit used to detect a
 - predetermined condition and said lifter is also positioned to engage the pair of electrical
 - conductors for connecting the line terminals to the load terminals;
 - a reset portion comprising a reset button attached to a reset pin said reset
 - 20 button and reset pin being mechanically biased, said reset pin having a circular flange
 - extending from its end portion, said flange positioned to interfere with the latch when the
 - opening of the latch is not aligned with the opening of the lifter and said flange and end
 - portion extend through the openings of the latch and lifter when said latch plate is
 - engaged by the movable plunger aligning the opening of the latch with the opening of the
 - 25 lifter and a recoil action by the latch causing a misalignment of the openings trapping the
 - end portion and flange underneath the latch allowing the biasing of the reset pin and reset
 - button to cause the flange to engage the lifter which engages the movable bridges causing
 - the line terminals to be electrically connected to the load terminals.

2. The circuit interrupting device of claim 1 where the condition comprises a ground fault, an arc fault, an appliance leakage fault, equipment leakage fault or an immersion detection fault.

3. The circuit interrupting device of claim 1 further comprising a trip portion
5 configured to cause electrical discontinuity between the line and load terminals where said trip portion comprises a trip button having an angled end for engaging the latch causing the opening of the latch to align with the opening of the lifter allowing the reset pin to disengage the lifter causing the line and load terminals to be disconnected from each other.

10 4. The circuit interrupting device of claim 1 further comprising a pair of face terminals electrically connected to a pair of user accessible receptacles where each face terminals extends from and is integral with a metallic structure disposed within said housing.

5. The circuit interrupting device of claim 4 where the pair of electrical
15 conductors are also configured to connect the line terminals to the face terminals.

6. The circuit interrupting device of claim 4 where the pair of electrical conductors are configured to connect the line, load and face terminals to each other upon the device being reset and such conductors are configured to disconnect the line, load and face terminals from each other upon detection of a predetermined condition.

20 7. The circuit interrupting device of claim 1 further comprising a sensing circuit for detecting the occurrence of the predetermined condition.

8. A circuit interrupting device comprising:

a first electrical conductor;

a second electrical conductor;

25 a third electrical conductors;

a movable bridge electrically connected to the first electrical conductor, said movable bridge capable of electrically connecting the first, second and third

electrical conductors to each other and disconnecting said first, second and third electrical conductors from each other upon the occurrence of a predetermined condition; and

a reset portion configured to reestablish electrical continuity between the first, second and third electrical conductors after said predetermined condition occurs.

5 9. The circuit interrupting device of claim 8 further comprising a circuit interrupting portion for causing electrical discontinuity between the first, second and third electrical conductors upon the occurrence of a predetermined condition.

10 10. The circuit interrupting device of claim 8 further comprising a reset lockout mechanism that prevents the reestablishment of electrical continuity between said first, second and third electrical conductors when said device is non-operational.

15 11. A system comprising:
 a circuit interrupting device having
 a first electrical conductor;
 a second electrical conductor;
 a third electrical conductors;
 a movable bridge electrically connected to the first electrical
conductor, said movable bridge capable of electrically connecting the first, second and
third electrical conductors to each other and disconnecting said first, second and third
electrical conductors from each other upon the occurrence of a predetermined condition;
20 a reset portion configured to reestablish electrical continuity
between the first, second and third electrical conductors after said predetermined
condition occurs; and
 at least one electrical device electrically connected to the circuit
interrupting device forming a circuit.

25 12. The system of claim 11 where the circuit interrupting device is a GFCI.